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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Connective Tissue Growth Factor - 1

Inventors (please provide full names): Lindell Point of Contact: Mona Smith

Technical Info. Specialist  
**CM1 12C14 Tel: 308-3278**

Earliest Priority Filing Date: 7/8/99

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USPT,JPAB,EPAB,DWPI,TDBD	(li-haodong.in. or li-h\$.in.) and ctgf	5	<u>L5</u>
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S2	1209	CONNECTIVE(W) TISSUE(W) GROWTH(W) FACTOR?
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S4	7	RD (unique items)
S5	2	AU=(ADAMS MARK OR ADAMS,M? OR ADAMS M? OR ADAMS, MARK) AND CTGF?
S6	2	RD (unique items)
S7	3	AU=(LI HAODONG OR LI, HAODONG OR LI H? OR LI, H?) AND CTGF
S8	3	RD (unique items)



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Db	179	-LGLDASEVELTRNNELIAIGKGSSSLKRLPVFGTEPRVLNFNPLHARGQKCTIVQTTSRSQ	236	A;Title: Identification of a gene family regulated by transforming growth factor-beta
Qy	239	CSRTCGTGISISTRVNDNPECRLVKETRICEVRGQPYSSSLKGKRCSTSRTKRSPEPVRF	298	A;Reference number: A40578; MUID:91229699
Db	237	CSKSCGGTGISISTRVNDNPECRLVKETRICEVRGQPYSSSLKGKRCSTSRTKRSPEPVRF	296	A;Accession: A40578
Qy	299	TYAGCLSVKKYRKPKYCSCCVDRCCPTPLTRTVKMRPCEDEGETFSKVNMMIQSCKCNYN	358	A;Status: preliminary
Db	297	TYAGCSCSVKKYRKPKYCSCCVDRCCPTPLTRTVKMRPCEDEGETFSKVNMMIQSCKCNYN	356	A;Molecule type: mRNA
A;Residues: 1-348 <BRU>				A;Cross-references: GB:M80263; PID:9201945; PID:AAA73135.1; PID:g201946
RESULT 2				
A41428				Query Match 45.28; Score 956.5; DB 2; Length 348;
CEF-10 Protein precursor - chicken				Best Local Similarity 46.9%; Pred. No. 2.2e-63;
C;Species: Gallus gallus (chicken)				Matches 179; Conservative 56; Mismatches 106; Indels 41; Gaps 8;
C;Date: 03-Apr-1992 *sequence_revision 03-Apr-1992 #text_change 21-Jul-2000				
C;Accession: A41428				
R;Simmons, D.L.; Levy, D.B.; Yannoni, Y.; Erikson, R.L.				
Proc. Natl. Acad. Sci. U.S.A. 86, 1178-1182, 1989				
A;Title: Identification of a phorbol ester-repressible v-src-inducible gene.				
A;Reference number: A41428; MUID:89145206				
A;Status: Preliminary				
A;Molecule type: mRNA				
A;Residues: 1-375 <SM>				
A;Cross-references: GB:J04496; NID:9211435; PIDN:AAA48661.1; PID:g211436				
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Best Local Similarity 81.28%; Pred. No. 4.8e-118;				
Matches 312; Conservative 19; Mismatches 41; Indels 12; Gaps 7;				
Qy 1 MSSRIARALAVVYLHLTRLA-STCPRAACHPELEAPKCAPGVGLYRBDGCCKYCAKQ	59			
Db 1 MGSGAARP-ALARALLCARLAISGPSPCPAVCOPPAACOPACARVLPDGCCKYCAKQ	59			
Qy 60 LNEDCSKSTQPCDHTKGLECNFGASSTALKICRAOSEGRPCEYNRSIYQNGESFQPNCKH	119			
Db 60 LNEDCSRTQPCDHTKGLECNFGASPAATNGICRAOSEGRPCEYNSKIYQNGESFQPNCKH	119			
Qy 120 QCTCIDAVGCIPLCPQELSPLNPGCNPRLVKGTYKQVTCVQDENSIKPMDQGLL	179			RESULT 4
Db 120 QCTCIDAVGCPPLCPQELSPLNPGCNPRLVKGTYKQVTCVQDENSIKPMDQGLL	179			fisp-12 protein precursor - mouse
Qy 180 GRELFDASEVELTRNNELIAVKGKSSSLKRLPVFGMPEP-RILYNPLQGQKCIYQFTWS	237			C;Species: Mus musculus (house mouse)
Db 178 SKEFGLDASEBCLTRNNELIAVKGKSSSLKRLPVFGMPEP-QPSQAFENP---KCIVQFTWS	232			C;Date: 19-May-1994 *sequence_revision 19-May-1994 #text_change 05-Nov-1999
Qy 238 QCSKSTCGTGISTRVNDNPERLVKETRICEVRGQPYVSSSLKGKRCSTSRTKRSPEPVR	297			C;Accession: A53228
Db 233 QCSKSTCGTGISTRVNDNPCKLKEITRICEVRGQPYVSSSLKGKRCSTSRTKRSPEPVR	292			R;Ryseck, R.P.; Macdonald-Bravo, H.; Mattei, M.G.; Bravo, R.
Qy 298 FTYACCLSVKKYRKPKYCSCCVDRCCPTPLTRTVKMRPCEDEGETFSKVNMMIQSCKCNY	357			Cell Growth Differ. 2, 225-233, 1991
Db 293 FTYACCSKKYRKPKYCSCCVDRCCPTPLTRTVKMRPCEDEGETFSKVNMMIQSCKCNY	352			A;Title: Structure, mapping, and expression of fisp-12, a growth factor-inducible gene
Qy 358 NCPHANEAAFPYRLFLNDIHKFRD 381				A;Accession: A53228; MUID:91363290
Db 353 NCPHANE-AFPYRLFLNDIHKFRD 375				A;Status: Preliminary
Qy 1 MSSRIARALAVVYLHL-TRIAL-STCPRAACHPEL-APKCAPGVGLYRBDGCCKYCA	57			A;Molecule type: DNA
Db 1 MLASVAGPISSLVLLALCTPATGQDCSACQOCAAEAPHCAGVSLVLDGCCRVC	60			A;Genetics
Qy 58 KOLNEDCSKSTQPCDHTKGLECNFGASSTALKICRAOSEGRPCEYNRSIYQNGESFQPNC	117			A;Cross-references: GB:M70641; NID:9193313; PIDN:AAA37627.1; PID:g193314
Db 61 KOLNEDCSRTQPCDHTKGLECNFGASPAATNGICRAOSEGRPCEYNSKIYQNGESFQPNC	119			A;Gene: fisp-12
Query Match 45.0%; Score 952.5; DB 2; Length 348;				Query Match 45.0%; Score 952.5; DB 2; Length 348;
Best Local Similarity 46.6%; Pred. No. 4.4e-63;				Best Local Similarity 46.6%; Pred. No. 4.4e-63;
Matches 178; Conservative 57; Mismatches 106; Indels 41; Gaps 8;				Matches 178; Conservative 57; Mismatches 106; Indels 41; Gaps 8;
RESULT 3				
beta				
IG-M2				
protein precursor - mouse				
C;Species: Mus musculus (house mouse)				
C;Date: 06-Mar-1992 *sequence_revision 06-Mar-1992 #text_change 05-Nov-1999				
C;Accession: A40578				
Chinn, A.; Chinn, J.; Neubauer, M.; Purchio, A.F.				
Appl. Environ. Biol., Vol. 10, 293-300, 1991				



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Db	61	NEDCSKTKQPCDTIKLBCNFGASSTALKGICRAQSEGRCPEINSRITQNGEFPQPNCKHQ	120		FT	CHAIN	23	375	CEP-10 PROTEIN.
Qy	121	CTCIDGAVGCIFLCPQELSPLNIGCPNPRLYKVTGOCCEWYCDESTIKDPMDQDGLG	180		FT	DOMAIN	98	164	WIF.
Db	121	CTCIDGAVGCIFLCPQELSPLNIGCPNPRLYKVTGOCCEWYCDESTIKDSIDDDQDL--	178		FT	DISULFID	281	355	CTCK.
Qy	181	KELGFDASEVELTRNNELIAYGKSSSKRKLWYFGMERYILYNPL--QGQKCVQQTTSWSQ	238		FT	DISULFID	298	332	BY SIMILARITY.
Db	179	--LGDASEVELTRNNELIAYGKSSSKRKLWYFGMERYILYNPL--QGQKCVQQTTSWSQ	236		FT	DISULFID	309	348	BY SIMILARITY.
Qy	239	CSTKGTGISTRVTNDNPECRLVKERICEYRPCGOPYVSSKKRKCSKTKSPEPVRF	298		FT	DISULFID	312	350	BY SIMILARITY..
Db	237	CSKSGTGISTRVTNDNPECRLVKERICEYRPCGOPYVSSKKRKCSKTKSPEPVRF	296		FT	DISULFID	317	354	BY SIMILARITY..
Qy	299	TYAGGLSVKVKYRKPKFCGSCYDGRCCTPQLTRTVKMRFCDEGEFSKVNAMIQSQCKCNYN	358		FT	SEQUENCE	375 AA;	40651 MW;	95F28553BE55D5AE CRC64;
Db	297	TYAGGSSVKVKYRKPKFCGSCYDGRCCTPQLTRTVKMRFCDEGEFSKVNAMIQSQCKCNYN	356		Query	Match	80.3%	Score 1699;	DB 1;
Qy	359	CPHANEAAFFYFLNDIHKFRD	381		Best Local	Similarity	81.2%	Length 375;	Wpred. No. 1.7-12;
Db	357	CPHNEASFLYSLENDIHKFRD	379		Matches	19;	Mismatches	41;	
					Indels	12;	Gaps	7;	
RESULT	3				Qy	1	MSSRIARALAVVTLIHLTRIAL-STCPAAHCPLAPKCAPGVGLYRDGGCCRYCAKQ	59	
CE_0_CHICK		STANDARD;	PRT;	375 AA.	Db	1	MGSAGARP-ALAALICLARIALGSPCPAVQCOPACAPGVGLVPDGCCRYCAKQ	59	
ID	CE_0_CHICK				Qy	60	LNEDCSKTQPDHTKGJECNEGASSTALKGTCRAQSEGRCPEYNSRIVQNGESFOPNCXH	119	
AC	P19336;				Db	60	LNEDCERTOPDHTKGLECNFGASPAATNGCRASEGRCPEYNSRIVQNGESFOPNCXH	119	
DT	01-NOV-1990	(Rel. 16, Created)			Qy	120	QCTCIDGAVGCIPQSLPQNLGPQNLCPNPRLYKVTGOCCEWYCDESTIKDPMDQDGLL	179	
DT	01-NOV-1990	(Rel. 16, Last sequence update)			Db	120	QCTCIDGAVGCIPQSLPQNLGPQNLCPNPRLYKVTGOCCEWYCDESTIKDPMDQDGLL	177	
DT	01-OCT-1996	(Rel. 34, Last annotation update)			Qy	180	GKELGFDASVEVLTRNNELIAVGKSSSKRKLWYFGMEP--RILNPLQGKCIYQTTSWS	237	
DE	CEP-10 PROTEIN PRECURSOR.				Db	178	SKEFGLDASGELETTRNNELIAVGK-GLMPLPVGFSEPSQRAFNP---KCIYQTTSWS	232	
OS	Eukaryota; Gallus (Chicken).				Qy	238	QCSKTCGTGISTRTVNDNPECRLVKETRCEVRPGQPYSSLRKKGKGSKTKKSPEPYR	297	
OC	Archosauria; Aves; Neognathae; Chordata; Craniata; Vertebrata; Euteleostomi; OC				Db	233	QCSKTCGTGISTRTVNDNPECRLVKETRCEVRPGQPYSSLRKKGKGSKTKKSPEPYR	292	
OC	Gallus.				Qy	298	FTYAGCLSYKRPKYCGCVDGRCTPQLTRTVKMRFCEDGETFSKVNAMIQSQCKCNY	357	
RN	[1]	SEQUENCE FROM N.A.			Db	293	FTYAGCCTSKYKRPKYCGCVDGRCTPQLTRTVKMRFCEDGETFSKVNAMIQSQCKCNY	352	
RP		MEDLINE=89145206; PubMed=2537491;			Qy	358	NCPHANEAAFPYRFLNDIHKFRD	381	
RX		RXNA			Db	353	NCPHANE-AFPYRFLNDIHKFRD	375	
RA		Simmons D.L.; Levy D.B.; Yannoni Y.; Erikson R.L.;			RESULT	4			
RA		Identification of a Phorbol ester-erpressible v-src-inducible gene. ";			ID	CITGF_MOUSE	STANDARD;		
RA		Proc. Natl. Acad. Sci. U.S.A. 86:1178-1182(1989).			AC	P29168;	PT;	348 AA.	
RL		-!- FUNCTION: PROBABLE SECRETED REGULATOR PROTEIN.			DT	01-DEC-1992	(Rel. 24, Created)		
CC		-!- INDUCTION: BY V-SRC.			DT	01-DEC-1992	(Rel. 24, Last sequence update)		
CC		-!- SIMILARITY: BELONGS TO THE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN FAMILY. CEF-10/CYRG1/CTGF/FISP-12/NOV PROTEIN SUBFAMILY.			DT	01-JUL-1998	(Rel. 36, Last annotation update)		
CC		-!- SIMILARITY: CONTAINS 1 WF6 DOMAIN.			DE	CONNECTIVE TISSUE GROWTH FACTOR PRECURSOR (CTGP) (FISP-12 PROTEIN).			
CC		-!- SIMILARITY: CONTAINS 1 C-TERMINAL CYSTEINE KNOT-LIKE DOMAIN (CTCK).			GN	CTGP OR FISP12 OR FISP-12.			
CC		This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - use by non-profit institutions. There are no restrictions on its modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a> or send an email to license@isb-sib.ch).			OS	Mus musculus (Mouse).			
CC		EMBL: J0496; AAA48661.1; PIR: A4128; A41428;			OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.			
DR		INTERPRO: IPRO00090; TSP1; 1.			RN	[1]	SEQUENCE FROM N.A.		
DR		PFAM: PF00093; wwc_1.			RP	RX	MEDLINE=91163290; PubMed=1888658;		
DR		INTERPRO: IPRO000867; 1.			DR	RX	Medline=9122969; PubMed=2029337;		
DR		INTERPRO: IPRO000884; 1.			RA	Ryseck R.-P., Macdonald-Bravo H., Mattei M.-G., Bravo R.;			
DR		INTERPRO: IPRO001007; 1.			RA	Brunner A., Chinn J., Nebauer M.G., Purchio A.F.;			
DR		PFAM: PF00007; CYS_knot; 1.			RT	"Identification of a gene family regulated by transforming growth factor-beta."			
DR		PFAM: PF00219; IgFP; 1.			RT	inducible gene encoding a secreted cysteine-rich protein.";			
DR		Growth factor binding; signal.			RL	DNA Cell Biol. 10:293-300(1991).			
FT		SIGNAL_1			RL	-!- TISSUE SPECIFICITY: TESTIS, SPLEEN, KIDNEY, LUNG, HEART, AND BRAIN LOWEST LEVEL IN TESTIS AND HIGHEST IN LUNG).			
FT					CC	CC -!- INDUCTION: BY GROWTH FACTORS.			